

ABSTRACT OF THE DISCLOSURE

The data transmission apparatus for performing data communication based on optical transmission includes a transmitting unit for converting and sending electric communication data, which is to be transmitted, into optical communication data, and a photoelectric conversion circuit for receiving the optical communication data and converting the received optical communication data into electric communication data, wherein the photoelectric conversion circuit includes a photodiode for generating a current based on the optical communication data, and a variable current supply for subtracting a predetermined current from the current generated by the photodiode. In addition, a bias current of a laser diode of each transmitting unit is set to a current larger than a laser oscillation threshold current so as to reduce the deviation of a light emission delay time of each laser diode.